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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/674,327	Applicant(s) LANG ET AL.	
	Examiner Aaron Sanders	Art Unit 2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-33 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-33 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This Office action has been issued in response to amendment filed 21 May 2007. Claims 1-33 are pending. Applicant's arguments have been carefully and respectfully considered, and some are persuasive, while others are not. Accordingly, objections and rejections have been removed where arguments were persuasive, but rejections have been maintained where arguments were not persuasive. Accordingly, claims 1-33 are rejected, and this action has been made FINAL, as necessitated by amendment.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested: Setting a Participant's Authorization Level Using Object Class Definition Tailoring.

Claim Objections

As per claims 1-13, 15, and 16, the phrase "one or more data processing apparatus" is incorrect. "Apparatus" should be plural.

As per claim 7, the phrase "data processing apparatus receive user input" is incorrect. It should be "data processing apparatus to receive user input".

Claim Rejections - 35 USC § 112 Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

Art Unit: 2168

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

As per claim 17, the limitation “changing a status” is incomprehensible as written. For example, the phrase “a participant who is excluded from involving the field in the activity” is particularly unclear. The specification mentions excluding a user from performing a data processing activity that involves the respective fields, see the paragraph beginning on page 11, line 22, but not a user who is excluded from involving a field in an activity.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-14 and 17-33 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claims 1-14, according to the instant specification (see the paragraph beginning on page 17, line 27), the computer program product includes carrier waves. As such, the instant claims are non-statutory.

As per claims 25-33, it appears that Applicant is trying to claim a data structure. However, the disclosed data structure is not “a physical or logical relationship among data elements, designed to support specific data manipulation functions” (*The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition*, IEEE Press, 2000). As such, the instant claims are non-statutory.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-33 are rejected under 35 U.S.C. 102(e) as being anticipated by Keinsley et al., U.S. P.G. Pub. 2003/0154403.

As per claims 1-33, Keinsley et al. teach:

1. A computer program product, tangibly embodied in one ore more information carriers, for tailoring the storage of information, the computer program product comprising instructions operable to cause one or more data processing apparatus to:

present a user with options for tailoring an object class definition (See e.g. Fig. 15B which is an administrative screen for tailoring an object, see [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity... This is accomplished by defining a Suspense Period”, and Fig. 15A which shows the tailored object, i.e. the list of users, see [0701], “A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to access data associated with the sponsor organization’s secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store”);

Art Unit: 2168

receive user input for tailoring the object class definition in response to the presentation of options, the user input identifying

a first field to be included in the tailored object class definition (See e.g. Fig. 15B, the “Status” field under “Activity History” for user “Jones, Smith”),

a second field to be included in the tailored object class definition (See e.g. Fig. 15B, the “Status” field under “Activity History” but for a different user, e.g. “Jones, Don” from Fig. 15A),

a first user or group of users (See e.g. Fig. 15A, user “Jones, Smith”), and

a second participant (See e.g. Fig. 15A, user “Jones, Don”);

redefine the tailored object class definition to include the first field and the second field (See e.g. Fig. 15A, table column “Current Status” which shows the status defined in Fig. 15B where, see [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity... This is accomplished by defining a Suspense Period”);

associate a first identifier with the first field (See e.g. Fig. 15A, table columns “AKA Name” and “Current Status” for user “Jones, Smith”) to identify that the first user or group of users is to be excluded from a first activity that involves the first field (See e.g. Fig. 15B where, when the “Status” is “Inactive”, the user is temporarily suspended, see e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity”); and

associate a second identifier with the second field (See e.g. Fig. 15A, table columns “AKA Name” and “Current Status” for user “Jones, Don”) to identify that the second user or

Art Unit: 2168

group of users is to be excluded from a second activity that involves the second field (See e.g. Fig. 15B where, when the “Status” is “Inactive”, the user is temporarily suspended, see e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity”); and

make the association of the first identifier with the first field and the association of the second identifier with the second field available for data processing activities.

2. The computer program product of claim 1, wherein the instructions also cause the one or more data processing apparatus to exclude the first user or group of users from the first activity (See e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity”).

3. The computer program product of claim 1, wherein the instructions cause the one or more data processing apparatus to receive user input identifying a role that the first user or group of users plays in an operation (See e.g. Fig. 15B where “Active” and “Inactive” are roles).

4. The computer program product of claim 3, wherein the instructions cause the one or more data processing apparatus to associate an identifier of the role with the first field (See e.g. Fig. 15B where the column heading “Status” identifies the roles “Active” and “Inactive”).

5. The computer program product of claim 1, wherein the instructions cause the one or more data processing apparatus to receive user input identifying a fieldgroup that includes the first field (See e.g. Fig. 15B where the column heading “Status” is the “fieldgroup” for the fields “Active” and “Inactive”).

6. The computer program product of claim 1, wherein the instructions cause the one or more data processing apparatus to:

receive first user input identifying the first field and the second field from a first individual (See e.g. “[0570] An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity” where the “access administrator” can change a user’s access level); and

receive second user input identifying the first user or group of users and the second user or group of users from a second individual (See e.g. “[0570] An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity. Only the IT security personnel can temporarily suspend an entity or a user” where only the “IT security personnel” can change the user).

7. The computer program product of claim 1, wherein the instructions also cause the one or more data processing apparatus receive user input identifying the first activity from which the first user or group of users is excluded (See e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity”).

8. The computer program product of claim 7, wherein the instructions cause the one or more data processing apparatus to receive user input identifying an authorization level identifying the first activity (See e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity” and Fig. 15B where, if the “Status” is “Inactive” the user has no authorization to access the system, see e.g. [0546], “1. If the processing status for the real entity-user corresponding to the virtual entity-user is Inactive, then the processing status for the virtual entity-user is Inactive. Essentially

Art Unit: 2168

this means that if the company that employs this user has suspended or revoked the user, then any delegated access is also Inactive”).

9. The computer program product of claim 8, wherein the instructions cause the one or more data processing apparatus to receive user input selecting the authorization level from a group of at least four authorization levels (See e.g. [0542], “3. The Entity User Selection Status for the Access Administrator (‘AA’) will be Active as long the user has not been suspended or revoked, and the entity is still active. From a status perspective, the user shows up on the current selection lists for an entity when the Entity User Display Status is ‘Registered’, ‘Active’, or ‘Temporarily Inactive’. The user shows up on the Revoked selection list when the Entity User Display Status is ‘Revoked’”).

10. The computer program product of claim 1, wherein the instructions also cause the one or more data processing apparatus to:

identify a trigger (See e.g. Fig. 15B, where the drop down menu “Reason” acts as a “trigger”); and

based upon the identification of the trigger, end the association of the first identifier with the first field to indicate that the first user or group of users is no longer excluded from the first activity (See e.g. [0561], “Reinstate a User is equivalent to Register a User, where an existing user account is being used, where the user has been previously registered with the entity, and the status is Revoked. This results in reregistered and active status records being set up for the entity-user”).

11. The computer program product of claim 1, wherein the instructions also cause the one or more data processing apparatus to:

receive user input identifying an operation performed with the tailored object (See e.g. [0004], “Sponsor organizations, such as healthcare companies, have clients that access their data and other resources over a distributed information retrieval system such as the World Wide Web. Such sponsor organizations have need of a stand-alone security system controlling access to secured information and self-service functionality for the sponsor organization”); and

associate an operation identifier, the first identifier, and the first field to indicate that the first user or group of users is to be excluded from the first activity that involves the first field in the operation (See e.g. Fig. 15A and [0009], “5. Different users need to play different roles within the entities for which they work. This requirements means that there needs to be a way to assign roles to users”).

12. The computer program product of claim 11, wherein the instructions cause the one or more data processing apparatus to receive user input identifying a collaboration of at least two parties (See e.g. Fig. 15A and [0007], “3. In order to use the system, each user needs to have the context in which he uses the system be defined. In general, the context is the organization for which he or she works. Typically these organizations are different from the sponsor organization. Having the context will drive what kinds of business functions and data are available to the user”).

13. The computer program product of claim 1, wherein the instructions also cause the one or more data processing apparatus to instantiate the tailored object class definition (See e.g. Fig. 15A and [0049], “Registration Process--The process whereby data about an entity, the Primary Controlling Authority, and the Primary Access Administrator are captured via an online process

Art Unit: 2168

and approved. The approval can be by the IT security personnel or it can be an automated approval process”).

14. The computer program product of claim 1, wherein:

the first activity comprises display of contents of the first field (See e.g. Fig. 15A where the “Current Status” of “Jones, Smith” is displayed as “Active”); and

the second activity comprises display of contents of the second field (See e.g. Fig. 15A where the “Current Status” of “Jones, Don” is displayed as “Active”).

15. The computer program product of claim 1, wherein the instructions cause the one or more data processing apparatus to create a graphical user interface to lead a user through the tailoring (See e.g. Figs. 15A-B).

16. The computer program product of claim 15, wherein the instructions cause the one or more data processing apparatus to create the graphical user interface on a web browser (See e.g. Figs. 15A-B).

17. A system comprising:

a data storage device including tailored data object class definitions, the tailored data class definitions having user-defined data fields (See e.g. Fig. 15A which shows the “tailored data objects” defined by an administrator in Fig. 15B); and

a data processing device in data communication with the data storage device, the data processing device being configured to perform data processing activities in accordance with a set of machine-readable instructions (See e.g. [0004], “Sponsor organizations, such as healthcare companies, have clients that access their data and other resources over a distributed information retrieval system such as the World Wide Web”), the activities including

identifying a trigger (See e.g. Fig. 15B, where the drop down menu “Reason” acts as a “trigger”); and

changing a status of a field in a first instance of a tailored object based on identification of the trigger, wherein the status of the field is associated with an activity that involves the field and with a participant who is excluded from involving the field in the activity (See e.g. Fig. 15B where, when the “Status” is “Inactive”, the user is temporarily suspended, see e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity” and [0701], “A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to access data associated with the sponsor organization's secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store”).

18. The system of claim 17, wherein changing the status of the field includes ending an exclusion of the identified participant from involving the field in the activity (See e.g. [0561], “Reinstate a User is equivalent to Register a User, where an existing user account is being used, where the user has been previously registered with the entity, and the status is Revoked. This results in reregistered and active status records being set up for the entity-user”).

19. The system of claim 18, wherein changing the status of the field includes releasing a field for display to all participants (See e.g. Fig. 15A where the “Current Status” of all users, i.e. “participants” is displayed).

20. The system of claim 17, further comprising operational instructions for the creation of a product (See e.g. [0036], “Dynamic Menus--the list of functions a user can perform based on the rights granted to him or her within the secured logon application. If a user does not have access to a particular function that function will not be presented as a menu item to the user”).

21. The system of claim 17, wherein the tailored data object class definitions comprise:
standard elements hardcoded into the tailored data object class definitions and hence not definable by a user (See e.g. Figs. 15A-B and [0570], “The result of any changes to the dates associated with a Suspense Period is that records are made of the new dates and an audit trail is created of the changes to the old dates”); and

tailored elements including the user-defined data fields (See e.g. Fig. 15A, column heading “Current Status”).

22. The system of claim 21, wherein the standard elements comprise elements found in every member of a group of data object class definitions (See e.g. Figs. 15A-B).

23. The system of claim 17, wherein the data processing device activities further include:
receiving user input identifying an operation that involves the tailored object class definition, the operation including the activity that involves the field (See e.g. [0004], “Sponsor organizations, such as healthcare companies, have clients that access their data and other resources over a distributed information retrieval system such as the World Wide Web. Such sponsor organizations have need of a stand-alone security system controlling access to secured information and self-service functionality for the sponsor organization”); and

associating an identifier of the operation with the status to indicate that the status is relevant to the operation (See e.g. Fig. 15A and [0009], “5. Different users need to play different

Art Unit: 2168

roles within the entities for which they work. This requirements means that there needs to be a way to assign roles to users”).

24. The system of claim 23, wherein the data processing device activity of receiving user input identifying the operation includes receiving user input identifying a collaboration of at least two parties (See e.g. Fig. 15A and [0007], “3. In order to use the system, each user needs to have the context in which he uses the system be defined. In general, the context is the organization for which he or she works. Typically these organizations are different from the sponsor organization. Having the context will drive what kinds of business functions and data are available to the user”).

25. Memory for storing data for access during performance of a set of machine-readable instructions for performing operations on a data processing system, comprising:

- a data structure definition stored in the memory, the data structure definition including:

- a data structure definition identifier (See e.g. Fig. 15A which shows a data structure, i.e. the list of users, and is identified as “User Selection”);

- a collection of one or more hardcoded elements hardcoded into the data structure definition (See e.g. Fig. 15A where the table columns are “hardcoded” and the individual table cells are not); and

- a collection of one or more tailored elements to fit a specific data processing activity of a user (See e.g. Fig. 15B where, when the “Status” is “Inactive”, the user is temporarily suspended, see e.g. [0570], “An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity”).

Art Unit: 2168

26. The memory of claim 25, wherein the data structure definition further comprises:
a user identification field for identifying a user (See e.g. Fig. 15A, “Jones, Don”); and
an activity identification field for identifying an activity from which the user is excluded
(See e.g. [0570], “An access administrator for an entity or the IT security personnel of the
sponsor organization can temporarily suspend a user for the entity”).

27. The memory of claim 26, wherein:
the collection of one or more tailored elements comprises a field tailored to the specific
data processing activity (See e.g. Fig. 15A where the “Current Status” contains a “field to fit the
specific data processing activity”).

28. The memory of claim 26, wherein the user identification field comprises an
authorization level field (See e.g. [0546], “1. If the processing status for the real entity-user
corresponding to the virtual entity-user is Inactive, then the processing status for the virtual
entity-user is Inactive. Essentially this means that if the company that employs this user has
suspended or revoked the user, then any delegated access is also Inactive”).

29. The memory of claim 28, wherein the user identification comprises a field for
receiving identification of one of four or more authorization levels (See e.g. [0542], “3. The
Entity User Selection Status for the Access Administrator (‘AA’) will be Active as long the user
has not been suspended or revoked, and the entity is still active. From a status perspective, the
user shows up on the current selection lists for an entity when the Entity User Display Status is
‘Registered’, ‘Active’, or ‘Temporarily Inactive’. The user shows up on the Revoked selection
list when the Entity User Display Status is ‘Revoked’”).

30. The memory of claim 25, further comprising an association field for identifying that the data structure definition is associated with a particular operation (See e.g. Fig. 15A and [0009], “5. Different users need to play different roles within the entities for which they work. This requirements means that there needs to be a way to assign roles to users”).

31. The memory of claim 25, wherein the data structure definition comprises an XML file (See e.g. Fig. 7 and [0727], “In certain instances it may be necessary or desirable for a system application or process to update the data in the secured logon application. In order to accommodate this functionality, the secured logon application includes a generic XML transaction processor”).

32. The memory of claim 25, further comprising a communications application for exchange of the data structure definition with a remote system (See e.g. [0004], “Sponsor organizations, such as healthcare companies, have clients that access their data and other resources over a distributed information retrieval system such as the World Wide Web”).

33. The memory of claim 32, wherein the communications application comprises a web service (See e.g. [0003], “The present invention relates to web-based security applications that provide controlled access to a sponsor organization's data and other resources”).

Response to Arguments

As per Applicant's argument that Keinsley et al. do not teach presenting a user with options for tailoring an object class definition in claim 1, the Examiner respectfully disagrees. The Examiner cited Fig. 15, which shows an interface to temporarily suspend a user. This interface allows an administrator to tailor an underlying object class definition, i.e. a user's

Art Unit: 2168

access rights. This is defined in [0701], “A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to access data associated with the sponsor organization’s secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store”. Thus, the depicted interface allows an administrator to make changes to the underlying object class definitions.

As per Applicant’s argument that Keinsley et al. do not teach redefining the tailored object class definition to include the first field and the second field in claim 1, the Examiner respectfully disagrees. The Examiner cited Fig. 15, which shows an interface to temporarily suspend a user. An administrator redefines the tailored object class definition by changing a user’s status. This is accomplished at the object class level as shown in paragraph This is defined in [0701], “A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to access data associated with the sponsor organization’s secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store”.

As per Applicant’s argument that Keinsley et al. do not disclose changing a status of a field in a first instance of a tailored object in claim 17, the Examiner respectfully disagrees. The Examiner cited Fig. 15, which shows an interface to temporarily suspend a user. An administrator is able to change the status of a user’s access rights via the interface of Fig. 15. This change is carried out in at an object class level, as indicated by [0701], “A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to

Art Unit: 2168

access data associated with the sponsor organization's secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store". Thus, Keinsley et al. do disclose changing a status of a field in a first instance of a tailored object.

As per Applicant's argument that Keinsley et al. do not disclose a data structure definition, the Examiner respectfully disagrees. The Examiner cited Fig. 15, which shows an interface to temporarily suspend a user. This interface clearly contains a data structure definition identifier (See e.g. Fig. 15A which shows a data structure, i.e. the list of users, and is identified as "User Selection"), a collection of one or more hardcoded elements hardcoded into the data structure definition (See e.g. Fig. 15A where the table columns are "hardcoded" and the individual table cells are not), and a collection of one or more tailored elements to fit a specific data processing activity of a user (See e.g. Fig. 15B where, when the "Status" is "Inactive", the user is temporarily suspended, see e.g. [0570], "An access administrator for an entity or the IT security personnel of the sponsor organization can temporarily suspend a user for the entity"). These features are implemented at the object class level, as indicated by [0701], "A VB6 COM DLL exposes a single class (b_SystemApplication) containing methods to allow business functions to access data associated with the sponsor organization's secured logon application. Data stored and exposed includes Entity and User security information, as well as the function sets that are defined within the secured logon application data store".

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Aaron J. Sanders whose telephone number is 571-270-1016. The Examiner can normally be reached on M-Th 8:00a-5:00p.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Tim Vo can be reached on 571-272-3642. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2168

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/AJS/
Aaron J. Sanders
Examiner
12 July 2007

SRP
7/19



TIM VO
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100